

Form PTO-1449 (modified)	Atty. Docket No. AUCH.0010.PCUS00	Serial No. 10599251 PCT/US2005/09723
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant Richard C. Auchterlonie	
	Filing Date: 23 March 2005	Group:

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,766,337	05/16/1998	Moon	106	690	
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						

Other (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	International Search Report and the Written Opinion of the International Searching Authority, PCT/US2005/09723, United States Patent and Trademark Office, Arlington, VA, 6 Sep 2006, 11 pages.
	C2	G. D. Roy, "High Power, High Repetition Rate Switches: An Overview," Office of Naval Research, United States Navy, Naval Research Review, Vol. 2, 1990, p. 17-24.
	C3	Plasmas and Fluids, Physics Through the 1990s, Physics Survey Committee, National Research Council, National Academy Press, Washington, D.C., 1986, pages 100-101.
	C4	Matthew T. Domonkos, "Increased PRF for Pulsed Power," SITIS Topic No. OSD05-D05, OSD, United States Air Force, dodsbir.net, printed 8/16/2005, 3 pages.

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	C5	"Plasma Switches for High-Repetition, High-Power Applications," SITIS Topic No. AF05-198, United States Air Force, printed 8/16/2005, 3 pages.
	C6	Velikovich et al., "Z-Pinch Plasma Neutron Sources," DE-AC04-94-AL85000, Proj-2480M Report No.(s): AD-A446151; NRL/MR/6720--06-8927, Naval Research Laboratory, Washington, D.C., Mar 24, 2006; 54 pages.
	C7	Yousry Gohar, "Fusion Solution to Dispose of Spent Nuclear Fuel, Transuranic Elements, and Highly Enriched Uranium," Report ANL/TD/CP-102732, Argonne National Laboratory, Argonne, IL, Proceedings of the 21st Symposium on Fusion Technology (SOFT-21), Madrid, Spain, September 11-15, 2000, 6 pages.
	C8	Mazarakis & Olson, "A New High Current Fast 100ns LTD Based Driver for Z-pinch IFE at Sandia," Sandia National Laboratory, Albuquerque, NM, presented at Twenty-First IEEE/NPSS Symposium on Fusion Engineering 2005, Knoxville, TN, Sept. 26-29 2005, 4 pages.
	C9	Sincerny et al., "FALCON: An Inductive Store/Opening Switch X-ray Simulator Test Bed," Physics International Corp., San Lendro, CA, Proc. 7th IEEE Pulsed Power Conf., Monterey, CA, June 11-14, 1989, p. 696-698.
	C10	M. E. Savage, "Final Results From The High-Current, High-Action Closing Switch Test Program at Sandia National Laboratories," SAND98-2818C, Sandia National Laboratories, Albuquerque NM, Jul 13, 1999, 6 pages.
	C11	K. W. Chu and G. L. Scott, "A Comparison of High-Voltage Switches," SAND99-0154, Sandia National Laboratories, Albuquerque NM, Feb. 1999, 5 pages.
	C12	Savage et al., "Design and Experimental Results on a Terawatt Magnetically Controlled Plasma Opening Switch," SAND98-0704, Sandia National Laboratories, Albuquerque, NM, May 1998, 66 pages.

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	C13	Savage et al., "Design of a Command-Triggered Plasma Opening Switch for Terawatt Applications," IEEE Transactions on Plasma Science, Vol. 28, No. 5, Oct. 2000, IEEE, Piscataway, NJ, pages 1533-1539.
	C14	Jackson et al., "Overview of recent results from the triggered plasma opening switch experiment," The 31st IEEE International Conference on Plasma Science, Baltimore, MD, 28 June - 1 July 2004, IEEE, Piscataway, NJ, page 372.
	C15	Ribe et al., "Feasibility Study of a Pulsed Thermonuclear Reactor," LA-3294-MS, Los Alamos Scientific Laboratory, Los Alamos, NM, May 20, 1965, 59 pages.
	C16	"Review of Controlled Thermonuclear Research At Los Alamos," LA-3253-MS, Los Alamos Scientific Laboratory, Los Alamos, NM, Aug. 17, 1965, 221 pages.
	C17	Zucker et al., "The Design of a Repetitively Pulsed Megajoule Dense-Plasma Focus," UCRL-51872, Lawrence Livermore Laboratory, Livermore, CA, Aug. 1, 1975, 60 pages.
	C18	O. S. Zucker, "General Considerations of Energy Compression," UCRL-80047, Lawrence Livermore Laboratory, Livermore, CA, October 1997, presented to Seminar on Energy Storage, Compression and Switching, Canberra, Australia, Nov. 15-21, 1997, 11 pages.
	C19	Kitzmiller et al., "Single and Multiphase Compulsator System Architectures: a Practical Comparison," The University of Texas at Austin Center for Electromechanics, Austin, Texas, December 21, 1999, U.S. Army Contract DAAA21-92-C-0105, 6 pages.
	C20	T. K. Fowler, "Gun Requirements to Achieve High Field Spheromak," UCRL-ID-133245, Lawrence Livermore National Laboratory, Livermore, CA, March 4, 1999, 14 pages.

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	C21	Woodruff et al., "Processes that Govern Helicity Injection in the SSPX Spheromak," UCRL-JC-149718, Lawrence Livermore National Laboratory, Livermore, CA, presented at the US-Japan CT Workshop, Osaka, Japan, Sept. 9-11, 2002, 7 pages.
	C22	Woodruff et al., "Route to high temperatures by current amplification in the Sustained Spheromak Physics Experiment (SSPX)," Lawrence Livermore National Laboratory, Livermore, CA, presented at the 29 th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, Switzerland, 17-21 June 2002 ECA Vol. 26B, P-5.047 (2002), 4 pages.
	C23	Sovinec et al., "Spheromak energy confinement in sustained and transient conditions," The 31st IEEE International Conference on Plasma Science, Wisconsin Univ., Madison, WI, ICOPS 2004, 28 June-1 July 2004, IEEE, Piscataway, NJ, page 159.
	C24	P. J. Turchi, "Prospects for Pulsed Power Above Ten Megampers," 12th IEEE International Pulsed Power Conference, Monterey, CA June 26-27, 1999, IEEE, Piscataway, NJ, Volume 1, pages 3 - 7.
	C25	P. L. Mondino, "The ITER Pulsed Power Supply System," Fusion Engineering, 1997, 17th IEEE/NPSS Symposium, San Diego, CA, 6-10 Oct 1997, IEEE, Piscataway, NJ, Volume 1, pages 491-496.
	C26	Walls et al., "Very high-voltage, ultra-high power density, rotating electrical machines as compact pulsed power supplies," Pulsed Power Plasma Science, 2001, Volume 2, pages: 1551 - 1554.
	C27	Kitzmiller et al., "An application guide for compulsators," IEEE Transactions on Magnetics, Volume 39, Issue 1, Part 1, Jan 2003, IEEE, Piscataway, NJ, pages 285 - 288.
	C28	Williams et al., "Generation IV Roadmap Activity Description of Generation IV Reactor and Fuel Cycle Molten Salt Reactors (MSRs) for Production of Electricity with Fissile, Fertile, and Fission Products Dissolved in a Fluoride Salt," Oak Ridge National Laboratory, Oak Ridge TN, April 25, 2001, 6 pages.

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	C29	J. Barber & D. Bauer, "Switching for electric rail guns," IEEE Transactions on Magnetics," Volume MAG-20, No. 2, Mar. 1984, IEEE, Piscataway, NJ, pages 304 - 307.
	C30	Zowarka et al., "A new approach to a high efficiency inductive store," IEEE Transactions on Magnetics," Volume 27, No. 1, Jan 1991, IEEE, Piscataway, NJ, pages 384 - 389.
	C31	E. van Dijk, "Experimental results obtained with the 1 MA resonant series counterpulse opening switch system, developed at TNO," 1997 11th IEEE International Pulsed Power Conference, Baltimore, MA, 29 Jun-2 Jul 1997, IEEE, Piscataway, NJ, Volume 1, pages 287 - 292.
	C32	Kukushkin, et al., "On the plasma-focus-produced spheromak for the D-3He-fusion-based jet propulsion," Fusion Engineering (SOFE '95) IEEE/NPSS Symposium, Champaign, IL, 30 Sep-5 Oct 1995, IEEE, Piscataway, NJ, Volume 2, pages 1490 - 1493.
	C33	Sahlin et al., "The Plasma Focus as a Pulsed Power Source," Lawrence Livermore Laboratory, Proceedings of the International Topical Conference on Electron Beam Research & Technology, Nov. 3-5, 1975, Albuquerque, NM, 34 pages.
	C34	H. de B. Knight, <u>The Arc Discharge</u> , Chapman & Hall Ltd., London, England, 1960, pgs. 10-11 and 58-61.
	C35	G. R. Jones, <u>High Pressure Arcs in Industrial Devices</u> , Cambridge University Press, Cambridge, England, 1988, pages 4-6.
	C36	Lindemuth et al., "Megagauss Technology and Pulsed Power Applications," LA-UR-96-2830, Los Alamos National Lab., Sep. 1, 1996, 18 pages.

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	C37	Bowers et al., "Plasma Flow Switch Characterization For the Los Alamos Foil Implosion Project," LA-UR-89-2169, Los Alamos National Laboratory, Los Alamos, NM, Presented at the Fifth International Conference on Magagauss Magnetic Field Generation and Related Topics, Novostbirk, USSR, July 4-7, 1989, 12 pages.
	C38	Benage et al., "The Plasma Flow Switch Experiment on Procyon," LA-UR-95-2552, Los Alamos National Laboratory, Los Alamos, NM, Presented at the 10 th IEEE International Pulsed Power Conference, Albuquerque, NM, July 10-13, 1995, IEEE, Piscataway, NJ, 8 pages.
	C39	Guenther et al., editors, <u>Opening Switches</u> , Plenum Press, New York, NY, 1987, pages 204-206, 300.
	C40	Lee et al., "Plasma Flow Switch Experiments on the Pegasus Facility," LA-UR-91-1983, Los Alamos National Laboratory, Los Alamos, NM, presented at the IEEE Pulsed Power Conference, San Diego, CA, June 17-19, 1991, IEEE, Piscataway, NJ, 4 pages.
	C41	E. M. Honig, "Progress in Developing Repetitive Pulse Systems Utilizing Inductive Energy Storage," LA-UR-83-1585, Los Alamos National Laboratory, Los Alamos, NM, Presented at the 4 th IEEE Pulsed Power Conference, Albuquerque, NM, June 6-8, 1983, IEEE, Piscataway, NJ, 5 pages.
	C42	Peterkin et al., "A Long Conduction Time Compact Torus Plasma Opening Switch," IEEE Transactions on Plasma Science, Vol. 21, No. 5, October, 1993, IEEE, Piscataway, NJ, pp. 522-528.
	C43	Wysocki et al., "Plasma Gate Switch Experiment on Pegasus II," LA-UR-95-2553, Los Alamos National Laboratory, Los Alamos, NM, Presented at 10 th IEEE Pulsed Power Conference, Albuquerque, NM, July 10-13, 1995, IEEE, Piscataway, NJ, 8 pages.

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	C44	Kagei et al., "MHD Simulation of Current Drive by Repetitive Plasmoid Injection in Helicity-Driven Spheromaks," Journal of Plasma and Fusion Research, Vol. 79, No. 3, March 2003, pages 217-218.
	C45	Eugene L. Neau, "High Average Power, High Current Pulsed Accelerator Technology," Sandia National Laboratories, Albuquerque, NM, presented at the IEEE 1995 Particle Accelerator Conference, Dallas, TX, 1-5 May 1995, IEEE, Piscataway, NJ, Proceedings Vol. 2, pages 1188 - 1192.
	C46	Peterson et al., "Comparison and Analysis of 2-D Simulation Results With Two Implosion Radiation Experiments on the Los Alamos Pegasus I and Pegasus II Capacitor Banks," LA-UR-95-2436, Los Alamos National Laboratory, Los Alamos, NM, presented at the IEEE Pulsed Power Conference, Albuquerque, NM, July 10-13, 1995, IEEE, Piscataway, NJ, 7 pages.
	C47	Goforth et al., "Procyon High Explosive Pulsed Power Experiments," LA-UR-96-2626, Los Alamos National Laboratory, Los Alamos, NM, presented at the 7 th International Conference on Megagauss Magnetic Field Generation and Related Topics, Sarov (Arzamas-16), Russia, August 5-10, 1996, 14 pages.
	C48	Shpitalnik et al., "Observations of two-dimensional magnetic field evolution in a plasma opening switch," Physics of Plasmas, Vol. 5, No. 3, March 1998, pages 792 -798.
	C49	T. Intrator, "Magnetized Target Fusion Collaboration 2004: Recent Progress," LA-UR-04-2578, Los Alamos National Laboratory, Los Alamos, NM, presented at the Innovative Confinement Concepts Workshop, Madison, WI, 25-28 May 2004, 35 pages.
	C50	Sheehay et al., "Computational Modeling of Pulsed-Power-Driven Magnetized Target Fusion Experiments," LA-UR-95-2365, Los Alamos National Laboratory, Los Alamos, NM, presented at the Tenth IEEE International Conference on Pulsed Power, Albuquerque, NM, July 10-13, 1995, IEEE, Piscataway, NJ, 7 pages.

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	C51	Craig L. Olson, "Progress on Z-Pinch Inertial Fusion Energy," Sandia National Laboratories, Albuquerque, NM, presented at the 20 th IAEA Fusion Energy Conference, Vilamoura, Portugal, 1-6 November 2004, 27 pages.
	C52	R. E. Reinovsky and C.A. Ekdahl, "Development of Imploding Liners with Kinetic Energies > 100 MJ and Their Applications," LA-UR-96-3962, Los Alamos National Laboratory, Los Alamos, NM, presented at the 7 th International Conference on Megagauss Magnetic Field Generation and Related Topics, Sarov (Arzamas-16), Russia, August 5-10, 1996, 13 pages.
	C53	Baker et al., "30 Years of Pulsed Power R&D in AFRL Kirtland's Building 322," United States Air Force Research Laboratory, presented at the Sixth Annual Directed Energy Professional Society Symposium, Albuquerque, NM, 23 October 2003, 22 pages.
	C54	F. J. Wessel and N. Rostoker, "Controlled Thermonuclear Fusion in a Staged Z-Pinch," DE-FG03-93ER54220, University of California, Irvine, CA, March 30, 2000, 69 pages.
	C55	"Maxwell Drawn Metal Can High Voltage Capacitors," General Atomics Electronic Systems Inc., San Diego, CA, 2003, 2 pages.
	C56	"CKE Silicon Carbide Suppressor Disks," SEMTEX, 400 West Cummings Park Woburn, MA, printed 10/28/2006, 3 pages.
	C57	Samuel J. Barish, "U.S. Fusion Energy Sciences Program, Southwestern Region Universities," U.S. Department of Energy Office of Fusion Energy Sciences, October 26, 2005, 16 pages.
	C58	John Willis, "Bringing a Star to Earth," U.S. Department of Energy Office of Fusion Energy Sciences, presentation at NASA's Goddard Space Flight Center, Greenbelt, MD, January 24, 2005, 43 pages.
	C59	"Green Light for Nuclear Fusion Project," NewScientist.com, Haywards Heath, UK, Nov. 21, 2006, 2 pages.

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	C60	"ITER and the Future," Frequently Asked Questions and their answers Part 4, jet.efda.org, EFDA-JET, Culham Science Centre, Abingdon, Oxfordshire, United Kingdom , printed 12/22/2006, 7 pages.

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